

A diagram of a linear data structure, possibly a linked list or array, represented as a horizontal bar. The bar is divided into segments by vertical lines. On the left, there is a circle. Below the bar, there are two horizontal double-headed arrows indicating distances. The first arrow starts from the left edge and points to the first segment. The second arrow starts from the first arrow's end and points to the last segment. Above the bar, there is a label "DIA. =" with an arrow pointing to the first segment. Below the bar, there is a label "DIA. =" with an arrow pointing to the last segment.

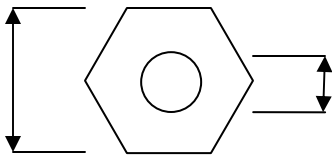
A technical drawing of a hexagonal nut. It consists of a regular hexagon with a circular hole in the center. On the left, a vertical dimension line with arrows at both ends indicates the height of the hexagon. On the right, a horizontal dimension line with arrows at both ends indicates the width of the hexagon. The central hole is represented by a circle.

DMT_App_A-300_level

Technical drawing of a bent pipe. The drawing shows a horizontal pipe with a 90-degree bend at the left end. Dimensions are indicated with arrows and text:

- MAT-302**: Material specification at the top left.
- GALV.**: Galvanized, located above the horizontal section.
- DIA. =**: Diameter specification, appearing twice with arrows pointing to the pipe's outer and inner diameters.
- 10**: A dimension value at the bottom right, likely representing the radius of the bend.

SUM
AVE.
AVE x 1.7 (AVE x 7.067)



A diagram showing a circular cross-section of a pipe. The outer diameter is labeled as 100 mm and the inner diameter is labeled as 50 mm.

PROJECT NUMBER:		MAT-302 STATE OF CT D.O.T. REPORT OF TEST Hex Bolt		DATE		MATERIAL CODE	
SAMPLE NUMBER:				LAB #			
<div> <div> <u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER </div> <div> PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____ </div> </div>		ITEM	BOLT	SPEC.	NUT	WASHER	
		SIZE (Nom. Dia.)					
		GRADE					
		AREA (mm ²)					
		HARDNESS					
		EST. T.S. (MPa)					
		GALV. (g/m ²)					
		Begin Date	End Date	Tested By	REMARKS		
<div>ENGINEER OF MATERIALS</div>							

MAT-303

PROJECT NUMBER:		MAT-303 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF Chain Link Fence Fabric		PROCESSING DATE		MATERIAL CODE 3300			
SAMPLE NUMBER:				LABORATORY NO.					
SPECIFICATION REFERENCE STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER PERSON ACCEPTING TECHNICAL RESPONSIBILITY NAME : TITLE:					Actual		Specification		
		Height of Fabric, inches (mm)					As specified on plans or spec. prov.		
		Gage of Wire					No. 9 gage		
		Size of Mesh, inches (mm)					2-inch (50 mm) mesh		
		Edge of Finish					Knuckled		
		Tensile Strength, psi (MPa)					See above		
		Weight of Coating, oz/ft ² (g/m ²)					See above		
		BEGIN DATE		END DATE		TESTED BY		REMARKS	
		RECOMMENDATION							
DIRECTOR OF RESEARCH AND MATERIALS									

MAT-304 (Reduced for inclusion in manual)

[illegible]

PROJECT NUMBER:	MAT-305 State of Connecticut Department of Transportation REPORT OF TEST: Steel Bars and Shapes		DATE		MATERIAL CODE		
SAMPLE NUMBER:			LAB #				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><u>SPECIFICATION REFERENCE</u></p> <p>STANDARD SPECIFICATION _____</p> <p>SUPPLEMENTAL SPECIFICATION _____</p> <p>PROJECT SPECIAL PROVISION _____</p> <p>OTHER _____</p> </div> <div style="width: 45%;"> <p style="text-align: center;">PERSON ACCEPTING</p> <p style="text-align: center;"><u>TECHNICAL RESPONSIBILITY</u></p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <p>NAME : _____</p> <p>TITLE: _____</p> </div>	Size						
	Grade						
	Area, in ² (mm ²)						
	Load, lbf (kN)						
	Y.P., psi (MPa)						
	Load, lbf (kN)						
	T.S., psi (MPa)						
	Elong. (%)						
	Cold Bend						
	Epox, mils (µm)						
	Test No.						
	Begin Test	End Test	Tested By	REMARKS			
	Recommendations						
	ENGINEER OF MATERIALS						

Tables From ASTM A 82
Steel Wire, Plain, For Concrete Reinforcement

Table 1 Tension Test Requirements	
Tensile strength, min, ksi (MPa)	80 (550)
Yield strength, min, ksi (MPa)	70 (485)
Reduction of area, min, %	30 ^A

^AFor material testing of 100 ksi (690 MPa) tensile strength, the reduction of area shall be not less than 25%.

Table 2 Tension Test Requirements (Material for Welded Wire Reinforcement)		
	Size W1.2 and Larger	Smaller than Size W1.2
Tensile strength based on wire nom. area, min, ksi (MPa)	75 (515)	70 (485)
Yield strength based on wire nom. Area, min, ksi (MPa)	65 (450)	56 (385)
Reduction of area, min, %	30 ^A	30 ^A

^AFor material testing over 100 ksi (690 MPa) tensile strength, the reduction of area shall be not less than 25 %.

Table 4 Permissible Variation in Wire Diameter		
Size Number	Nominal Diameter, in. (mm)	Permissible Variation Plus and Minus, in. (mm)
Smaller than W5	Under 0.252 (6.40)	0.003 (0.08)
W5 to W12, incl	0.252 (6.40) to 0.391 (9.93), incl	0.004 (0.10)
Over to W20, incl	Over 0.391 (9.93) to 0.505 (12.83), incl	0.006 (0.15)
Over W20	Over 0.505 (12.83)	0.008 (0.20)

PROJECT NUMBER:	MAT-306		PROCESSING DATE		MATERIAL CODE	
SAMPLE NUMBER:	DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF Plain Wire for Welded Wire Fabric		LABORATORY NO.		3145	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>SPECIFICATION REFERENCE</u></p> <p>STANDARD SPECIFICATION _____</p> <p>SUPPLEMENTAL SPECIFICATION _____</p> <p>PROJECT SPECIAL PROVISION _____</p> <p>OTHER _____</p> </div> <div style="width: 45%;"> <p><u>PERSON ACCEPTING</u></p> <p><u>TECHNICAL RESPONSIBILITY</u></p> <p>NAME : _____</p> <p>TITLE: _____</p> </div> </div>		Horizontal	Horizontal Spec.	Vertical	Vertical Spec.	
	Spacing (in.)		—		—	
	Size Number					
	Act. Diam. (in)					
	Nom. Area (in ²)		—		—	
	Load (lbf)		—		—	
	T.S. (psi)					
	Condition		—		—	
	BEGIN DATE	END DATE	TESTED BY	REMARKS		
	RECOMMENDATION					
DIRECTOR OF RESEARCH AND MATERIALS						

PROJECT NUMBER:		MAT-307 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST General Tensile Strength		PROCESSING DATE		MATERIAL CODE	
SAMPLE NUMBER:				LABORATORY NO.			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><u>SPECIFICATION REFERENCE</u></p> <p>STANDARD SPECIFICATION _____</p> <p>SUPPLEMENTAL SPECIFICATION _____</p> <p>PROJECT SPECIAL PROVISION _____</p> <p>OTHER _____</p> </div> <div style="width: 45%;"> <p style="text-align: center;">PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u></p> <p>NAME : _____</p> <p>TITLE: _____</p> </div> </div>		Size					
		Grade					
		Area (in ²)					
		Load (lbf)					
		Y.P. (psi)					
		Load (lbf)					
		T.S. (psi)					
		Elong. (%)					
		Cold Bend					
		Galv (mils)					
		Test No.					
		BEGIN DATE	END DATE	TESTED BY	REMARKS		
		RECOMMENDATION					
		DIRECTOR OF RESEARCH AND MATERIALS					

STATE OF CONNECTICUT - DEPARTMENT OF TRANSPORTATION

Division of Materials Testing 280 West Street , Rocky Hill CT 06067-3502

Report For Test on Portland Cement Concrete Cylinders

MAT-308 REV 6/03

Inspector is responsible for unshaded portion. personnel are responsible for shaded areas.			Lab
		Curing Box Used	Y N (Circle one)
Project No.		District	
Sample/Cyl. No.		Source	
Sample version		Plant Location	
Structure/location where concrete was placed		Sampled From (i.e.chute/pump)	
Item Number/Code		Inspector	
Item Quantity			
Material Quantity		Units	
Brand of Cement			
Required Strength		Contractor	

Air (C173/C231)		}	<i>Measured at point of placement</i>
Conc Temp C1064			
Slump C143			

	1	2	3	4	5	6
Age						
Date Sampled						
Date Received						
Date Tested						
Cyl Dia.						
Total Load						
Load (PSI/Mpa)						
Average						
Status						
Lab No.						
Material No.						
Vendor No.						
Destination Code						
Usage Code						
Tested by						

Item Number : Contract Item under which Contractor is being paid for concrete that is represented by sample.

Item Quantity: Amount of concrete/Number of items represented by sample in pay units for that contract item. It is never cylinders

Material Quantity: Amount of Concrete represented by sample. Min. Schedule for Test requires one sample every 75 CY for structures and 50 CY for pavement. It is never cylinders.

Compression Units

Specimen:	#1	#2	#3
Received Weight (W_R), lb or kg			
Gross Area (A_g), in ² or mm ²			
Max. Comp. Load (P_{MAX}), lbf or N			

Absorption Units

Specimen:	#1	#2	#3
Ave. Height (H), in or mm			
Immersed Weight (W_i), lb or kg			
Saturated Weight (W_s), lb or kg			
O.D. Weight – Final (W_d), lb or kg			

Oven Dry Density (D), lb/ft³ = $[W_d/(W_s-W_i)] \times 62.4$

Oven Dry Density (D), kg/m³ = $[W_d/(W_s-W_i)] \times 1000$

Absorption, lb/ft³ = $[(W_s-W_d)/(W_s-W_i)] \times 62.4$

Absorption, kg/m³ = $[(W_s-W_d)/(W_s-W_i)] \times 1000$

Net Volume (V_n), ft³ or mm³ = W_d/D

Average Net Area (A_n), in² = $(V_n \times 1728)/H$

Average Net Area (A_n), mm² = V_n/H

PROJECT NUMBER:		<b style="font-size: 1.2em;">MAT-309 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF MASONRY CONCRETE UNITS/BRICK			PROCESSING DATE		MATERIAL CODE	
SAMPLE NUMBER:					LABORATORY NO.			
<u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER <u>PERSON ACCEPTING</u> <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____		#1	#2	#3	Ave.	Spec. Ave.	Spec. Ind.	
	Height, in (mm)							
	Length, in (mm)							
	Width, in (mm)							
	Comp. Strength, psi (MPa)							
	Absorption, lb/ft ³ (kg/m ³)							
	BEGIN DATE	END DATE	TESTED BY	REMARKS				
	RECOMMENDATION							
DIRECTOR OF RESEARCH AND MATERIALS								

Durometer Readings

1.

2.

3.

4.

5.

Average =

Identification

Conn.:

Proj. No.:

Manufacturers I.D.:

Pad Type No.:

Month and Year:

Bridge Number:

Lot Number:

Pad Number:

PROJECT NUMBER:		MAT-310		DATE		MATERIAL CODE		
SAMPLE NUMBER:		STATE OF CT D.O.T. REPORT OF TEST		LAB #		3505		
<u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____		ELASTOMERIC BEARING PAD		PAD DATA		SPECIFICATIONS		
		Size						
		Slope						
		Spacing (Lam.)						
		No. & Thickness						
		Edge Cover						
		Elast. Layer						
		Comp. Strain						
		Duro. Hardness						
		Shop Drawing						
		Cert. Test Report						
		Test Date	Report Date	Tested By	Remarks			
		Recommendation						
		ENGINEER OF MATERIALS						

Compression Units

Specimen:	#1	#2	#3	#4	#5
Gross Area (A), in ² (mm ²)					
Maximum Load (W), lbf (N)					

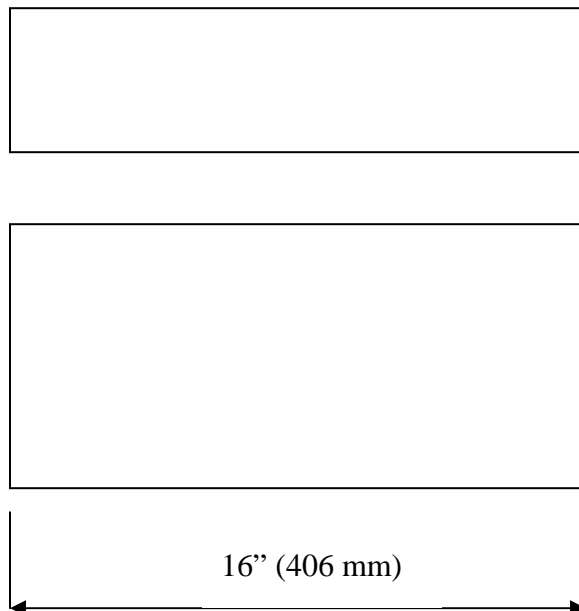
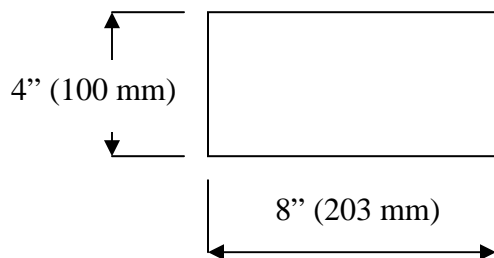
Absorption Units

Specimen:	#1	#2	#3	#4	#5
Saturated Weight 5-h boil (W_b), lb (kg)					
Oven Dry Weight – Final (W_d), lb (kg)					

Compressive Strength, psi = W/A

Absorption, % = $100(W_b - W_d)/W_d$

PROJECT NUMBER:	MAT-312 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST CLAY BRICK				PROCESSING DATE			MATERIAL CODE		
SAMPLE NUMBER:					LABORATORY NO.					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER </div> <div style="width: 45%;"> PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____ </div> </div>		#1	#2	#3	#4	#5	Ave	Spec. Ave.	Spec. Ind.	
	Depth, in (mm)									
	Length, in (mm)									
	Width, in (mm)									
	Strength, psi (MPa)									
	Absorption by 5- hour boiling (%)									
	BEGIN DATE	END DATE	TESTED BY		REMARKS					
	RECOMMENDATION									
DIRECTOR OF RESEARCH AND MATERIALS										



PROJECT NUMBER:	MAT-313		PROCESSING DATE	MATERIAL CODE 3197	
SAMPLE NUMBER:	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF CONCRETE BLOCK FOR SLOPE PROTECTION		LABORATORY NO.		
<u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____		SAMPLE 1	SAMPLE 2	SAMPLE 3	SPEC.
	L, Length, inches (mm)				16 +/- 1/2 in 406 +/- 12.5 mm
	W, Width, inches (mm)				8 +/- 1/2 203 +/- 12.5 mm
	H, Height, inches (mm)				4 +/- 1/2 100 +/- 12.5 mm
	A, Area, in ² (mm ²)				----
	Load, lbf (N)				----
	Stength, psi (MPa)				3000 psi 21 MPa
	BEGIN DATE	END DATE	TESTED BY	REMARKS	
	RECOMMENDATION				
	DIRECTOR OF RESEARCH AND MATERIALS				

**CERTIFICATION OF PRECAST
CONCRETE PRODUCTS
MAT-314 (PC-1)**

REV. 11/03

STATE OF CONNECTICUT

Department of Transportation

Division of Materials Testing

280 West Street , Rocky Hill CT 06067-3502

DATE OF SHIPMENT

Project Personnel: Submit with
Request for Test **AFTER** visual
inspection on project site.

List one type of product per cast date per line

DISTRIBUTION: Original to Lab, Copy to Project Engineer, Copy to be kept by Manufacturer

MANUFACTURER		LOCATION	
SHIPPED TO: (Contractor's Name)		PROJECT NO. or PURCHASE ORDER NO.	
Description of Products	Cast Date	Quantity	
Remarks			
This document certifies that all the products listed above conform to all applicable Department and project specifications			
Authorized Agent of Manufacturer			

Signed:	DATE
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PROJECT NUMBER:	MAT-315 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING ALTERNATIVE EVALUATION TEST SHEET	PROCESSING DATE	MATERIAL CODE	
SAMPLE NUMBER:		LABORATORY NO.		
<u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION _____ SUPPLEMENTAL SPECIFICATION _____ PROJECT SPECIAL PROVISION _____ OTHER _____ PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____	The subject material has been evaluated based on the following: <input type="checkbox"/> Certified Test Report (attached/on file) <input type="checkbox"/> Materials Certificate (attached/on file) <input type="checkbox"/> Laboratory personnel at the fabrication plant <input type="checkbox"/> Test bars for the cast dates listed <input type="checkbox"/> The Approved Product List <input type="checkbox"/> Approved Catalog Cut <input type="checkbox"/> Field Inspection by Project Personnel <input type="checkbox"/> Past Performance <input type="checkbox"/> Proprietary Item			
	BEGIN DATE	END DATE	TESTED BY	REMARKS
	RECOMMENDATION			

SAMPLE	
BRAND	
TYPE	
IN LAB	
94 Lbs. Bag	
42 Kgs. Bag	
GAL CAN	
OTHER	

<u>Specification Reference</u>	
STANDARD SPECIFICATION	_____
SUPPLEMENTAL SPECIFICATION	_____
PROJECT SPECIAL PROVISION	_____
OTHER	_____
PERSON ACCEPTING TECHNICAL RESPONSIBILITY	
NAME	_____
TITLE	_____

DATE TO CHEM. RM.		FULL CHEMICAL		PROJECT #
DATE RESULTS RETURNED		FINES ONLY		SAMPLE #

Mat - 316	AASHTO M – 85 (ASTM C – 150)				LAB NO.		
REPORT OF TEST PORTLAND CEMENT (TYPE I)							
PHYSICAL SECTION TEST RESULTS				CHEMICAL SECTION TEST RESULTS			
TEST	LAB RESULT	AASHTO SPEC.		TEST	LAB RESULT	AASHTO SPEC.	
AIR CONTENT %		12 MAX.		FINENESS SoCm/Gm		2600 - 4200	
				SiO ₂ %		NONE	
AUTOCLAVE EXPANSION %		.80 MAX		Al ₂ O ₃ %		NONE	
COMPRESSIVE STRENGTH				Fe ₂ O ₃ %		NONE	
1 Day MPa PSI		NONE		MgO %		6.0 MAX.	
3 Day MPa PSI		12 MPa Min. 1740 PSI Min.		SO ₃ %		a) 3.0 MAX. b) 3.5 MAX.	
7 Day MPa PSI		19 MPa Min. 2760 PSI Min.		LOSS ON IGNITION %		3.0 MAX.	
				INSOLUABLE RESIDUE %		0.75 MAX.	
				C ₃ S %		NONE	
TIME OF SETTING				C ₂ S %		NONE	
VICAT, MIN		45 to 375		C ₃ A %		NONE	

				a) WHEN $C_3A < 8\%$ b) WHEN $C_3A > 8\%$ NOTES:
RECOMMENDED FOR:				REMARKS:

MAT-316 - Page 2

CEMENT _____ TYPE _____ LAB NO. _____

T - 106 C - 109 DATE: TIME:			T - 137 C - 185			
CUBES MADE:			AIR CONTENT			
AGE			WATER %			
DATE			WATER ml			
1.			FLOW %			
2.			GROSS WT			
3.			- CUP WT			
AVG			= NET WT			
			FACTOR			
			NET WT* FACTOR			
			AIR CONT %			
DATE						
T-107 C-151 AUTOCLAVE			T-129 C-187 NORMAL CONSISTANCY			
TIME BARS MADE			WATER %			
BARS MEASURE			WATER ml			
SWITCHES ON			PENETRATI ON mm			
VENT CLOSED						
295 PSI			T-131 C-191 VICAT - TIME OF SET			
ADD 3 HOURS				MADE	INITIAL	
SWITCHES OFF			TIME OF DAY			
DOWN 1 ½ HRS			HR: MIN			
COOL 30 MIN			MINUTES			
AFTER STEAM						
BEFORE STEAM						

DIFFERENCE	
% EXPANSION	

SAMPLE	
BRAND	
TYPE	
IN LAB	
94 Lbs. Bag	
42 Kgs. Bag	
GAL CAN	
OTHER	

Specification Reference	
STANDARD SPECIFICATION	_____
SUPPLEMENTAL SPECIFICATION	_____
PROJECT SPECIAL PROVISION	_____
OTHER	_____
PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u>	
NAME	_____
TITLE	_____

DATE TO CHEM. RM.		FULL CHEMICAL		PROJECT #
DATE RESULTS RETURNED		FINESSE ONLY		SAMPLE #

Mat - 317	AASHTO M – 85 (ASTM C – 150)					LAB NO.	
REPORT OF TEST PORTLAND CEMENT (TYPE IA)							
PHYSICAL SECTION				CHEMICAL SECTION			
TEST	LAB RESULT	AASHTO SPEC.		TEST	LAB RESULT	AASHTO SPEC.	
AIR CONTENT %		22 MAX 16 MIN		FINENESS SoCm/Gm		2600 - 4200	
				SiO ₂ %		NONE	
AUTOCLAVE EXPANSION %		.80 MAX		Al ₂ O ₃ %		NONE	
COMPRESSIVE STRENGTH				Fe ₂ O ₃ %		NONE	
1 Day <u>MPa</u> PSI		NONE		MgO %		6.0 MAX.	
3 Day <u>MPa</u> PSI		10 MPa Min. 1450 PSI Min.		SO ₃ %		c) 3.0 MAX. d) 3.5 MAX.	
7 Day <u>MPa</u> PSI		16 MPa Min. 2320 PSI Min.		LOSS ON IGNITION %		3.0 MAX.	
				INSOLUABLE RESIDUE %		0.75 MAX.	
				C ₃ S %		NONE	
TIME OF SETTING				C ₂ S %		NONE	
VICAT, MIN		45 to 375		C ₃ A %		NONE	

				c) WHEN $C_3A < 8\%$ d) WHEN $C_3A > 8\%$ NOTES:
RECOMMENDED FOR:				REMARKS:

MAT-317 - Page 2

CEMENT _____ TYPE _____ LAB NO. _____

T - 106 C - 109 DATE: TIME:			T - 137 C - 185																		
CUBES MADE:			AIR CONTENT																		
AGE			WATER %																		
DATE			WATER ml																		
1.			FLOW %																		
2.			GROSS WT																		
3.			- CUP WT																		
AVG			= NET WT																		
			FACTOR																		
			NET WT* FACTOR																		
			AIR CONT %																		
DATE																					
T-107 C-151 AUTOCLAVE			T-129 C-187 NORMAL CONSISTANCY																		
TIME BARS MADE			WATER %																		
BARS MEASURE			WATER ml																		
SWITCHES ON			PENETRATI ON mm																		
VENT CLOSED			<table border="1"> <tr> <td colspan="3">T-131 C-191 VICAT - TIME OF SET</td> </tr> <tr> <td>ADD 3 HOURS</td> <td></td> <td>MADE INITIAL</td> </tr> <tr> <td>SWITCHES OFF</td> <td></td> <td>TIME OF DAY</td> </tr> <tr> <td>DOWN 1 ½ HRS</td> <td></td> <td>HR: MIN</td> </tr> <tr> <td>COOL 30 MIN</td> <td></td> <td>MINUTES</td> </tr> </table>				T-131 C-191 VICAT - TIME OF SET			ADD 3 HOURS		MADE INITIAL	SWITCHES OFF		TIME OF DAY	DOWN 1 ½ HRS		HR: MIN	COOL 30 MIN		MINUTES
T-131 C-191 VICAT - TIME OF SET																					
ADD 3 HOURS		MADE INITIAL																			
SWITCHES OFF		TIME OF DAY																			
DOWN 1 ½ HRS		HR: MIN																			
COOL 30 MIN		MINUTES																			
295 PSI																					

AFTER STEAM	
BEFORE STEAM	
DIFFERENCE	
% EXPANSION	

SAMPLE	
BRAND	
TYPE	
IN LAB	
94 Lbs. Bag	
42 Kgs. Bag	
GAL CAN	
OTHER	

Specification Reference STANDARD SPECIFICATION _____ SUPPLEMENTAL SPECIFICATION _____ PROJECT SPECIAL PROVISION _____ OTHER _____ PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME _____ TITLE _____
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DATE TO CHEM. RM.		FULL CHEMICAL		PROJECT #
DATE RESULTS RETURNED		FINES ONLY		SAMPLE #

Mat - 318		AASHTO M – 85 (ASTM C – 150)				LAB NO.	
REPORT OF TEST PORTLAND CEMENT (TYPE II)							
PHYSICAL SECTION				CHEMICAL SECTION			
TEST	LAB RESULT	AASHTO SPEC.		TEST	LAB RESULT	AASHTO SPEC.	
AIR CONTENT %		12 MAX.		FINENESS SoCm/Gm		2600 - 4200	
				SiO ₂ %		20.0 MIN.	
AUTOCLAVE EXPANSION %		.80 MAX		Al ₂ O ₃ %		6.0 MAX.	
COMPRESSIVE STRENGTH				Fe ₂ O ₃ %		6.0 MAX.	
1 Day <u>MPa</u> PSI		NONE		MgO %		6.0 MAX.	
3 Day <u>MPa</u> PSI		10 MPa Min. 1450 PSI Min.		SO ₃ %		3.0 MAX..	
7 Day <u>MPa</u> PSI		17 MPa Min. 2470 PSI Min.		LOSS ON IGNITION %		3.0 MAX.	
				INSOLUABLE RESIDUE %		0.75 MAX.	
				C ₃ S %		55.0 MAX.	
TIME OF SETTING				C ₂ S %		NONE	

VICAT, MIN		45 to 375		C ₃ A %		8 MAX.	
				NOTES:			
RECOMMENDED FOR:				REMARKS:			

MAT-318 – Page 2

CEMENT _____ TYPE _____ LAB NO. _____

T – 106 C – 109 DATE: TIME:			T – 137 C – 185			
CUBES MADE:			AIR CONTENT			
AGE			WATER %			
DATE			WATER ml			
1.			FLOW %			
2.			GROSS WT			
3.			- CUP WT			
AVG			= NET WT			
			FACTOR			
			NET WT* FACTOR			
			AIR CONT %			
DATE						
T-107 C-151 AUTOCLAVE			T-129 C-187 NORMAL CONSISTANCY			
TIME BARS MADE			WATER %			
BARS MEASURE			WATER ml			
SWITCHES ON			PENETRATI ON mm			
VENT CLOSED						
295 PSI			T-131 C-191 VICAT – TIME OF SET			
ADD 3 HOURS				MADE	INITIAL	
SWITCHES OFF			TIME OF DAY			
DOWN 1 ½ HRS			HR: MIN			

COOL 30 MIN		MINUTES		
AFTER STEAM				
BEFORE STEAM				
DIFFERENCE				
% EXPANSION				

SAMPLE	
BRAND	
TYPE	
IN LAB	
94 Lbs. Bag	
42 Kgs. Bag	
GAL CAN	
OTHER	

<u>Specification Reference</u>	
STANDARD SPECIFICATION	_____
SUPPLEMENTAL SPECIFICATION	_____
PROJECT SPECIAL PROVISION	_____
OTHER	_____
PERSON ACCEPTING TECHNICAL RESPONSIBILITY	
NAME	_____
TITLE	_____

DATE TO CHEM. RM.		FULL CHEMICAL		PROJECT #
DATE RESULTS RETURNED		FINESSE ONLY		SAMPLE #

Mat - 319	AASHTO M – 85 (ASTM C – 150)				LAB NO.		
REPORT OF TEST PORTLAND CEMENT (TYPE IIA)							
PHYSICAL SECTION				CHEMICAL SECTION			
TEST	LAB RESULT	AASHTO SPEC.		TEST	LAB RESULT	AASHTO SPEC.	
AIR CONTENT %		12 MAX.		FINENESS SoCm/Gm		2600 - 4200	
				SiO ₂ %		20.0 MIN.	
AUTOCLAVE EXPANSION %		.80 MAX		Al ₂ O ₃ %		6.0 MAX.	
COMPRESSIVE STRENGTH				Fe ₂ O ₃ %		6.0 MAX.	
1 Day MPa PSI		NONE		MgO %		6.0 MAX.	
3 Day MPa PSI		10 MPa Min. 1450 PSI Min.		SO ₃ %		3.0 MAX..	
7 Day MPa PSI		17 MPa Min. 2470 PSI Min.		LOSS ON IGNITION %		3.0 MAX.	
				INSOLUABLE RESIDUE %		0.75 MAX.	
				C ₃ S %		55.0 MAX.	
TIME OF SETTING				C ₂ S %		NONE	
VICAT, MIN		45 to 375		C ₃ A %		8 MAX.	
				NOTES:			
RECOMMENDEDED FOR:				REMARKS:			

CEMENT _____ TYPE _____ LAB NO. _____

T – 106 C – 109 DATE: TIME:			T – 137 C – 185			
CUBES MADE:			AIR CONTENT			
AGE			WATER %			
DATE			WATER ml			
1.			FLOW %			
2.			GROSS WT			
3.			- CUP WT			
AVG			= NET WT			
			FACTOR			
			NET WT* FACTOR			
			AIR CONT %			
DATE						
T-107 C-151 AUTOCLAVE			T-129 C-187 NORMAL CONSISTANCY			
TIME BARS MADE			WATER %			
BARS MEASURE			WATER ml			
SWITCHES ON			PENETRATI ON mm			
VENT CLOSED						
295 PSI		T-131 C-191 VICAT – TIME OF SET				
ADD 3 HOURS			MADE	INITIAL		
SWITCHES OFF			TIME OF DAY			
DOWN 1 ½ HRS			HR: MIN			
COOL 30 MIN			MINUTES			
AFTER STEAM						
BEFORE STEAM						
DIFFERENCE						
% EXPANSION						

SAMPLE	
BRAND	
TYPE	
IN LAB	
94 Lbs. Bag 42 Kgs. Bag	
GAL CAN	
OTHER	

Specification Reference	
STANDARD SPECIFICATION	_____
SUPPLEMENTAL SPECIFICATION	_____
PROJECT SPECIAL PROVISION	_____
OTHER	_____
PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u>	
NAME	_____
TITLE	_____

DATE TO CHEM. RM.		FULL CHEMICAL		PROJECT #
DATE RESULTS RETURNED		FINES ONLY		SAMPLE #

Mat - 320	AASHTO M – 85 (ASTM C – 150)				LAB NO.		
REPORT OF TEST PORTLAND CEMENT (TYPE III)							
PHYSICAL SECTION				CHEMICAL SECTION			
TEST	LAB RESULT	AASHTO SPEC.		TEST	LAB RESULT	AASHTO SPEC.	
AIR CONTENT %		12 MAX.		FINENESS SoCm/Gm		NONE	
				SiO ₂ %		NONE	
AUTOCLAVE EXPANSION %		.80 MAX		Al ₂ O ₃ %		NONE	
COMPRESSIVE STRENGTH				Fe ₂ O ₃ %		NONE	
1 Day <u>MPa</u> PSI		12 MPa Min. 1740 PSI Min.		MgO %		6.0 MAX.	
3 Day <u>MPa</u> PSI		24 MPa Min. 3480 PSI Min.		SO ₃ %		a) 3.5 MAX b) 4.5 MAX	
7 Day <u>MPa</u> PSI		NONE		LOSS ON IGNITION %		3.0 MAX.	
				INSOLUABLE RESIDUE %		0.75 MAX.	
				C ₃ S %		NONE.	
TIME OF SETTING				C ₂ S %		NONE	
VICAT, MIN		45 to 375		C ₃ A %		15 MAX.	
				e) WHEN C ₃ A < 8% f) WHEN C ₃ A > 8% NOTES:			
RECOMMENDED FOR:				REMARKS:			

CEMENT _____ TYPE _____ LAB NO. _____

T - 106 C - 109 DATE: TIME:			T - 137 C - 185			
CUBES MADE:			AIR CONTENT			
AGE			WATER %			
DATE			WATER ml			
1.			FLOW %			
2.			GROSS WT			
3.			- CUP WT			
AVG			= NET WT			
			FACTOR			
			NET WT* FACTOR			
			AIR CONT %			
DATE						
T-107 C-151 AUTOCLAVE			T-129 C-187 NORMAL CONSISTANCY			
TIME BARS MADE			WATER %			
BARS MEASURE			WATER ml			
SWITCHES ON			PENETRATI ON mm			
VENT CLOSED						
295 PSI			T-131 C-191 VICAT - TIME OF SET			
ADD 3 HOURS				MADE	INITIAL	
SWITCHES OFF			TIME OF DAY			
DOWN 1 ½ HRS			HR: MIN			
COOL 30 MIN			MINUTES			
AFTER STEAM						
BEFORE STEAM						
DIFFERENCE						
% EXPANSION						

Length, in (mm)	Diameter in (mm)	Length/Diameter	Strength Correction Factor

Table 1 (AASHTO T 24)

Ratio of Length of Cylinder to Diameter	Strength Correction Factor
1.75	0.98
1.50	0.96
1.25	0.93
1.00	0.87

PROJECT NUMBER:		MAT 321 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF PC CONCRETE CORES FOR STRENGTH		PROCESSING DATE		MATERIAL CODE	
SAMPLE NUMBER:				LABORATORY NO.			
SPECIFICATION REFERENCE _____ STANDARD SPECIFICATION _____ SUPPLEMENTAL SPECIFICATION _____ PROJECT SPECIAL PROVISION _____ OTHER _____ PERSON ACCEPTING TECHNICAL RESPONSIBILITY NAME : _____ TITLE: _____		Load, lbf (kN)	Strength, Psi (MPa)	Corrected Strength, Psi (MPa)	85% Req. Strength psi (MPa)	75% Req. Strength psi (MPa)	
	Sample 1						
	Sample 2						
	Sample 3						
	Average						
	BEGIN DATE	END DATE	TESTED BY	REMARKS			
	RECOMMENDATION						
	<div style="text-align: right;">DIRECTOR OF RESEARCH AND MATERIALS</div>						

PROJECT NUMBER:	MAT-322 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF LENGTH OF DRILLED CONCRETE CORES					PROCESSING DATE			MATERIAL CODE		
SAMPLE NUMBER:						LABORATORY NO.					
<div><div><div>SPECIFICATION REFERENCE</div><div>STANDARD SPECIFICATION</div><div>SUPPLEMENTAL SPECIFICATION</div><div>PROJECT SPECIAL PROVISION</div><div>OTHER</div></div><div><div>PERSON ACCEPTING</div><div>TECHNICAL RESPONSIBILITY</div><div>NAME : _____</div><div>TITLE: _____</div></div></div>	Spec. I.D.	Center (in)	Outer 1 (in)	Outer 2 (in)	Outer 3 (in)	Outer 4 (in)	Outer 5 (in)	Outer 6 (in)	Outer 7 (in)	Outer 8 (in)	Ave (in)
BEGIN DATE		END DATE		TESTED BY		REMARKS					
RECOMMENDATION											

DIRECTOR OF RESEARCH AND MATERIALS

Description	Sample #1	Sample #2	Sample #3	Specifications
Overall Diam. Across Crowns, in (mm)				
Diameter of Exterior Wire #1, in (mm)				
Diameter of Exterior Wire #2, in (mm)				
Diameter of Exterior Wire #3, in (mm)				
Diameter of Exterior Wire #4, in (mm)				
Diameter of Exterior Wire #5, in (mm)				
Diameter of Exterior Wire #6, in (mm)				
Diameter of Center Wire, in (mm)				
Diff Betwn. Center & Any Ext. Wire, in (mm)				
Pitch, in (mm)				
Load @ 1% Extension, lbf (kN)				
Breaking Load, lbf (kN)				
Breaking Strength, psi (MPa)				
No. Wires Broken				
Type of Break				
Location of Break				
Length Meas. @ 1% Extension, "A", in (mm)				
Length Meas. @ Breaking Load, "B", in (mm)				
Total Elongation Under Load (%)				

Total Elongation Under Load = (100%)[(B-A)/A] + 1%

PROJECT NUMBER:		MAT-323 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST: STEEL STRAND		PROCESSING DATE		MATERIAL CODE 3148		
SAMPLE NUMBER:				LABORATORY NO.				
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>SPECIFICATION REFERENCE</u></p> <p>STANDARD SPECIFICATION _____</p> <p>SUPPLEMENTAL SPECIFICATION _____</p> <p>PROJECT SPECIAL PROVISION _____</p> <p>OTHER _____</p> </div> <div style="width: 45%;"> <p>PERSON ACCEPTING</p> <p><u>TECHNICAL RESPONSIBILITY</u></p> <p>NAME: _____</p> <p>TITLE: _____</p> </div> </div>				Sample 1	Sample 2	Sample 3		
		Reel No.						
		Heat No.						
		Diameter of Strand, in (mm)						
		Min. Ext. Wire Diameter, in (mm)						
		Center Wire Diameter, in (mm)						
		Diff in Diameter of Center Wire, in (mm)						
		Total Area of 7 Wires, in. ² , mm ²						
		Load @ 1% Elongation, lbf (kN)						
		Total Elongation (%)						
		Breaking Load, lbf (kN)						
		BEGIN DATE		END DATE	TESTED BY	REMARKS		
		RECOMMENDATION						
		DIRECTOR OF RESEARCH AND MATERIALS						

Yearly Inspection of Pre-stressed, Precast and Reinforced Concrete Pipe Manufacturers

Date: _____

Inspection by: _____

Phone: _____

Fax No: _____

E-Mail: _____

Plant Name _____

Address _____

Plant Manager _____

Items of Manufacture _____

MIXERS

Manufacturer	Type	Capacity

PIPE MACHINES

Manufacturer	Type	Sizes

CALIBRATION of SCALES

Scale	Date of Calibration	Calibration Company
Cement		
Aggregate		
Water		
Other		

TESTING EQUIPMENT

Testing Machine	Date of Calibration	Calibration Company
3-Edge		
Compression		
Concrete Testing Equip.	Condition	Calib. Info Available
Air Meter		
Slump Cone		
Thermometers		

PLANT QUALITY CONTROL PERSONNEL

Employee

ACI / PCI Certified

NETTCP Conc. Tech.

Additional remarks

SOURCE of CEMENT and POZZOLANS

AGGREGATES and WATER

Material

Source

Size

SOURCE of CATCH BASIN FRAMES and GRATES

REINFORCEMENTDomestic Steel

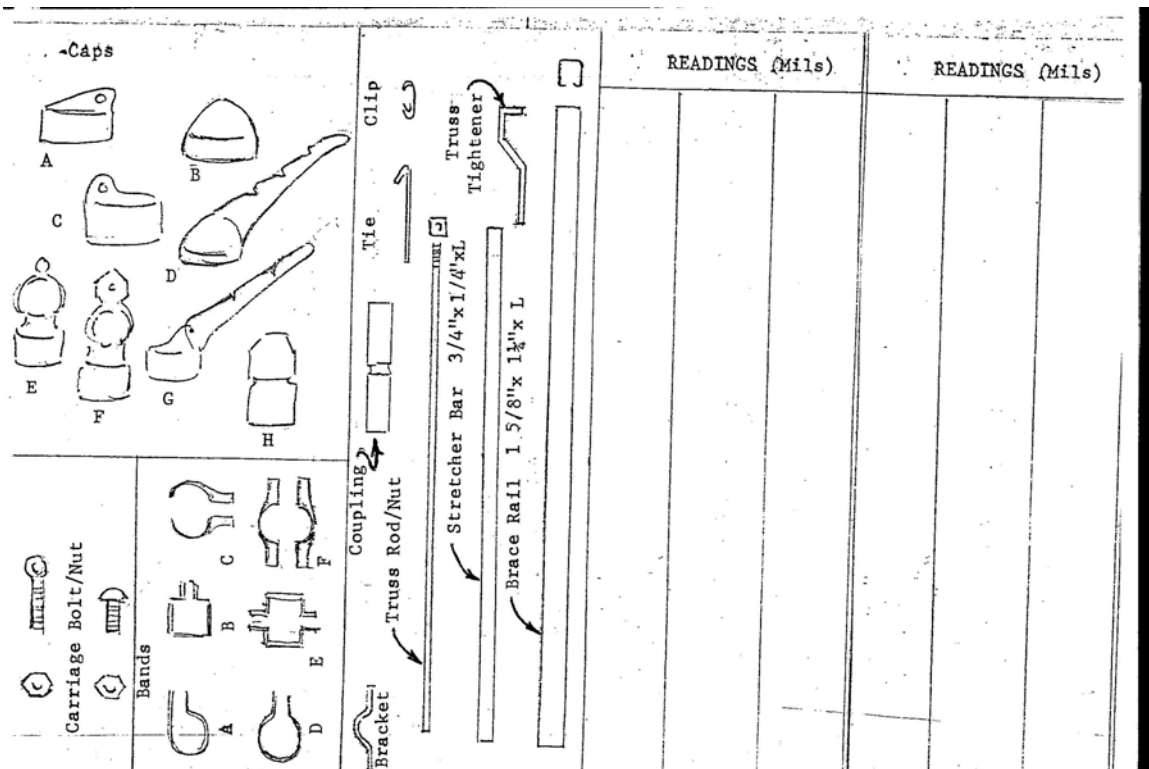
Foreign Steel onsite

ADMIXTURES

Manufactures of Admixtures

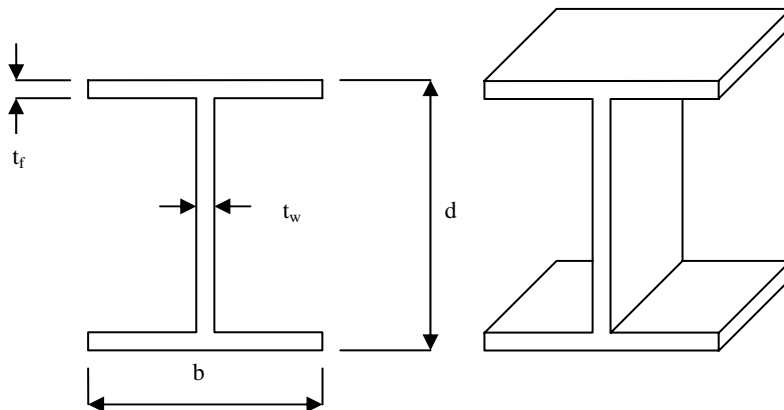
Name **Type**

Q.C. PLAN DEFICIENCIES



PROJECT NUMBER:	<h2 style="margin: 0;">MAT- 325</h2> <p style="margin: 0;">Connecticut Department of Transportation DIVISION OF MATERIALS TESTING REPORT OF TEST CHAIN LINK FENCE HARDWARE</p>		PROCESSING DATE	MATERIAL CODE
SAMPLE NUMBER:			LABORATORY NO.	<h1 style="margin: 0;">3320</h1>
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>SPECIFICATION REFERENCE</u></p> <p>STANDARD SPECIFICATION _____</p> <p>SUPPLEMENTAL SPECIFICATION _____</p> <p>PROJECT SPECIAL PROVISION _____</p> <p>OTHER _____</p> </div> <div style="width: 45%;"> <p>PERSON ACCEPTING</p> <p><u>TECHNICAL RESPONSIBILITY</u></p> <p>NAME : _____</p> <p>TITLE: _____</p> </div> </div>	ITEM	Galv. Oz/in ² (g/m ²)	ITEM	Galv. Oz/in ² (g/m ²)
BEGIN DATE	END DATE	TESTED BY	REMARKS	
RECOMMENDATION				
DIRECTOR OF RESEARCH AND MATERIALS				

PROJECT NUMBER:	MAT-326 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF CHAIN LINK FENCE TENSION WIRE		PROCESSING DATE	MATERIAL CODE
SAMPLE NUMBER:			LABORATORY NO.	
<u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION _____ SUPPLEMENTAL SPECIFICATION _____ PROJECT SPECIAL PROVISION _____ OTHER _____ PERSON ACCEPTING _____ <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____		Actual	Specification	
	Gage of Wire			
	Tensile Strength, psi (MPa)			
	Weight of Coating, oz/ft ² (g/m ²)			
	BEGIN DATE	END DATE	TESTED BY	REMARKS
	RECOMMENDATION			
DIRECTOR OF RESEARCH AND MATERIALS				



PROJECT NUMBER:		MAT-327		POST DATE	LAB #	MAT. CODE 3549
SAMPLE NUMBER:		CT D.O.T. REPORT OF TEST H-Piles and Wide Flange Shapes		DATE RECEIVED		RECEIVED BY
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><u>SPECIFICATION REFERENCE</u></p> <p>STANDARD SPECIFICATION _____</p> <p>SUPPLEMENTAL SPECIFICATION _____</p> <p>PROJECT SPECIAL PROVISION _____</p> <p>OTHER _____</p> </div> <div style="width: 45%;"> <p style="text-align: center;">PERSON ACCEPTING</p> <p style="text-align: center;"><u>TECHNICAL RESPONSIBILITY</u></p> </div> </div> <div style="margin-top: 20px;"> <p>NAME: _____</p> <p>TITLE: _____</p> </div>		Item	Sample	<u>Specification</u>		
				U.S. Cust. (in)	Metric (mm)	
		b, flange width		+ 1/4 - 3/16	+ 4 - 3	
		d, depth		+1/4 -3/16	+6 -5	
		t _f , flange thickness		---	---	
		t _w , web thickness		---	---	
		wt/ft		+/-2.5%	+/-2.5%	
		Tensile Strength (ksi, MPa)			Gr. 36: 58-80 Gr. 50: 65-95	Gr. 36: 400-550 Gr. 50: 450-655
		Begin Date	End Date	Tested By	REMARKS	
ENGINEER OF MATERIALS						

ASTM A 496

Steel Wire, Deformed, for Concrete Reinforcement

Table 4 Tension Test Requirements (Material for Welded Wire Reinforcement)

	psi (MPa) min
Tensile strength	80000 (550)
Yield strength	70000(485)

Section 9 Permissible Variation in Weight

9.1 The permissible variation in weight of any deformed wire is +/-6% of its nominal weight. The theoretical weights shown in Table 1, or similar calculations on unlisted sizes, shall be used to establish the variation.

PROJECT NUMBER:	MAT-328		PROCESSING DATE		MATERIAL CODE	
SAMPLE NUMBER:	DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF MISCELLANEOUS MATERIALS		LABORATORY NO.		3145	
<u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : TITLE:		Horizontal	Horizontal Spec.	Vertical	Vertical Spec.	
	Spacing (in.)		—		—	
	Size Number					
	Unit Wt. (lb/ft)					
	Nom. Area (in ²)		—		—	
	Load (lbf)		—		—	
	T.S. (psi)					
	Condition		—		—	
	BEGIN DATE	END DATE	TESTED BY	REMARKS		
	RECOMMENDATION					
DIRECTOR OF RESEARCH AND MATERIALS						

PROJECT NUMBER:	MAT-329 DEPARTMENT OF TRANSPORTATION DIVISION OF MATERIALS TESTING REPORT OF TEST OF MISCELLANEOUS MATERIALS	PROCESSING DATE	MATERIAL CODE 3406		
SAMPLE NUMBER:		LABORATORY NO.			
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <u>SPECIFICATION REFERENCE</u> STANDARD SPECIFICATION SUPPLEMENTAL SPECIFICATION PROJECT SPECIAL PROVISION OTHER </div> <div style="width: 45%;"> PERSON ACCEPTING <u>TECHNICAL RESPONSIBILITY</u> NAME : _____ TITLE: _____ </div> </div>		Acceptance is based upon a Brand Registration and Guarantee filed with the Engineer (Division of Materials Testing) by the fabricator in accordance with AASHTO M180. The fabricator for this material is _____. The thickness type is _____ and the coating class is _____. The heat number is _____.			
		BEGIN DATE	END DATE	TESTED BY	REMARKS
		RECOMMENDATION			
DIRECTOR OF RESEARCH AND MATERIALS					

SAMPLE IN LAB: _____

SAMPLE DIMENSIONS: _____

AASHTO
M - 153

TYPE I - SPONGE RUBBER

TYPE II – CORK

TYPE III – SELF EXPANSION CORK

SPECIFICATION REFERENCE

STANDARD SPECIFICATION _____

SUPPLEMENTAL SPECIFICATION _____

PROJECT SPECIAL PROVISION _____

OTHER _____

PERSON ACCEPTING

TECHNICAL RESPONSIBILITY

NAME: _____

TITLE: _____

P. E. J. F. (CORK – SPONGE RUBBER) M - 153

	MATERIAL CODES L.F.T. 3155 SQ.FT 3158	<u>LABORATORY NUMBER</u>
	LAB RESULTS	SPECIFICATIONS
SPECIFIED THICKNESS (in.)		
MEASURED THICKNESS (in.)		AS SPECIFIED \pm 0.0625
AMOUNT OF EXTRUSION (in.)		0.25 MAX.
COMPRESSION REQUIRED FOR 50% REDUCTION OF THICKNESS (P.S.I.)		50 to 1500
AMOUNT OF THICKNESS RECOVERED %		90 MIN.
REMARKS:	RECOMMENDED FOR:	

AASHTO M – 153 TYPE II CORK	LABORATORY NUMBER:
	EXTRUSION
DIAL READING (PLATE & SAMPLE)	
MINUS DIAL READING (PLATE ONLY)	
= SAMPLE THICKNESS (in.)	
½ SAMPLE THICKNESS (in.)	
PLUS DIAL READING (PLATE ONLY)	
=DIAL READING @ 50% THICKNESS	
AMOUNT OF EXTRUSION @ 50% THICKNESS	
	RECOVERY
DIAL READING (PLATE & SAMPLE)	
MINUS DIAL READING (PLATE ONLY)	
= SAMPLE THICKNESS (in.)	
½ SAMPLE THICKNESS (in.)	
PLUS DIAL READING (PLATE ONLY)	
=DIAL READING @ 50% THICKNESS	
P.S.I. USING MEDIUM RANGE @50% THICKNESS	TIME:
TOTAL LOAD (P.S.I. * 4) (lbs.)	
AMOUNT OF COMPRESSION (TOTAL LOAD/16) (P.S.I.)	
DIAL READING AFTER 10 MINUTES OF RECOVERY	TIME:
MINUS DIAL READING (PLATE ONLY)	
=RECOVERED THICKNESS (in.)	
%RECOVERY = (RECOVERED THICKNESS / SAMPLE THICKNESS)* 100	

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